

ELECTRODE COMPOSITION

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[No drawing]

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[57] Abstract:

PURPOSE: To improve an electrode utilization factor and electrolytic strength as an electrode of a solid electrochemical element by including electrode active material, alkaline metallic salt compound, block-graft copolymer, and compound expressed by a specified formula. CONSTITUTION: As electrode active material, simple metal such as metal lithium, carbon material such as carbon black, metal oxide, etc., are used, and as alkaline metallic salt, various types of alkaline halides, etc., are used. Additionally, block-graft copolymer having a micro-phase separation structure is used. Especially, the block-graft copolymer is composed of block chains A of at least one sort of copolymer of a polymerization degree of 10 or more comprising repeated units expressed by a formula I, and block chains B of at least one sort of a polymerization degree of 300 or more comprising repeated units expressed by a formula II (R^4 is H, etc., M is $-CH=CH_2$, etc.). By thus including the electrodeactive material, etc., a high electrode utilization factor and electrode strength can be provided.

[51] **Int'l Class:** H01M00462 H01G009028 G02F0011343